Role of CROs and KPOs/BPOs



Module 13 Topic 2

Contract Research Map: India

 Approximately 404 medium to large CROs are present across India





http://www.contractresearchmap.com/places/india (29 Jul 2018)

Contract Research Organization (CRO)

Contract research organization (CRO) is a company that provides support to the pharmaceutical, biotechnology, and medical device industries in the form of research services outsourced on a contract basis.



Why Outsource to CRO?

- Thus apart from considering cost, Research organizers looks for all the quality standards and expertise available before opting for CRO
- The clinical portion of the drug development constitutes the most labor-intensive and costly phase of drug development
- Besides Cost, often sponsors of the research seemingly don't find it apt to employ large permanent workforce for conducting research



Why Outsource to CRO?

- Sponsors may face problem of
 - sufficing the large number of employees in their premises and a quick recruitment of vast manpower is also a major obstacle.
 - All the labor-intensive work such as
 - · monitoring,
 - · auditing,
 - database management,
 - programming for listing and tables, and
 - statistical interpretation
 - are reasonably easy to outsource without the fear of any mishandling in Clinical Research workflow.



CRO: Growth

- CRO speaking literally refers to a person or an organization who is contracted to conduct clinical trials and duties with sponsor
- Over the last decade CRO market has witnessed a spurious rise worldwide with millions of workforce employed with them
- The figures that were \$1 billion for CROs in early 90's stands at around \$6 billion at present date.
- Among the global CRO market, India holds a market of \$300 to \$500 million in the field of Clinical Research Organization (CRO)



CRO: Growth

- CROs provide wide array of services in Clinical Research field
- They can either be specialized in any number of services that can be offered for Clinical Researches
- Besides Clinical Researches, CRO also provide development services for Non- Clinical like pharmaceutical, bioscience, medical devices industry, petrochemicals etc



Major Services that CRO's provide

- Site Management
- Clinical Trial Data Management
- Clinical Trial Project
 Management
- Clinical Trial Monitoring and Auditing
- Clinical Trial Logistics Services
- Clinical Supplies
 Manufacturing &
 Packaging/Labelling

- Central Lab Services
- Regulatory Affairs
- BA/BE Services
- Medical & Protocol Writing
- Education & training etc...



Benefits with CRO

- CRO is professionally equipped to provide the services for trails and is a safe and best choice for sponsors of study
- CROs can be easily relied for the study to be conducted with their coordination
- CRO can variedly conduct diverse task for Clinical study with competent and professional workforce
- CROs manages the study and Research more efficiently and cost-effectively, and maximize the benefits in time and profit of patient-protected products



Benefits with Contract Research Organization

- Fulfills the areas where sponsor organization is lacking like personnel's strength, technology, facility needed for specific Research without the actual increase of resources at sponsors end
- Cuts the cost tremendously as it is located at the location where monetary cost of resources is comparatively much less
- Time duration also gets reduced as CRO have the professional experience and has accessible resource, technology and facility that sponsor organization may not support



Benefits with Contract Research Organization

- CRO have more experience as they have direct links from other companies and also have the know-how & proficiency of conducting trials
- CRO has the expertise over the trends and basics of Regulatory authority and affairs in the native country
- CROs are aware of the issues that can evolve in the study and the methods to deal with them



Selection of a CRO

- Every aspect holds certain pros and cons if not handled properly. Similarly CRO can turn out disastrous if Sponsor of the researches doesn't make a smart and intelligent selection
- Its necessary for them to scrutinize every minutest detail associated with Contract Research Organization (CRO)



Selection of a CRO

- As CRO comes from entirely a different country, sponsors often may not have the idea about the culture of the country
- Thus it's not at all advisable to leave everything on CRO stake. It's the duty of sponsors to Research properly and extensively before choosing a CRO
- The CRO must be selected with respect to the nature of the project and whether or not CRO has expertise in it?



Selection of a CRO

- Sponsors and Organizers of the Study must take it into account to evaluate the past record and all the history in terms of trials CRO has conducted
- If necessary sponsors can also crosscheck and cross verify directly from the client of the CRO
- It's sponsor's duty to see that their project is compatible with CRO services and they must ensure the related aspects to the project



Key points to be checked at the time of selection

- Well equipped Infrastructure and Facility
- Must be technologically advanced and should support the latest software for labs and site management
- Qualified Researchers and professionally qualified & experienced management team
- Good rapport with regulatory authorities
- Knowledge of Regulatory affairs & guidelines such as GCP
- Should have a good database of qualified volunteers and patients







https://www.igeahub.com/2018/03/15/top-10-global-cros-2018/

References

- http://www.fermish.com/contract_research_organiz ation/contract_research_organization_benefits.htm
 - (29/7/2018; 9:35am)
- https://www.igeahub.com/2018/03/15/top-10global-cros-2018/
 - (29/7/2018: 12.55 pm)



What is BPO and KPO

- Business Process Outsourcing or BPO is the outsourcing of any segment/ process/ function of the business organization to an outside organization.
- The major cause behind the outsourcing of business process is to reduce costs and maximize efficiency.
- The focus is made on the process, i.e. the process is predetermined, and the provider has to bring consistency and productivity in the assigned processes.



What is BPO and KPO

- Knowledge Process Outsourcing or KPO refers to the assignment or transfer of knowledge plus information related process to another organization.
- KPO firms perform high-level tasks for which highly skilled personnel are required by the firms.
- It is an extended version of BPO.
- It requires in-depth knowledge, domain expertise, judgment and interpretation power of the workers, who are capable of applying their knowledge because the work entails decision making on specific issues.



- Pharma KPO is provides its partners with a broad range of solutions that are aimed at reducing costs while optimizing business performance
- Pharma KPO focuses in the field of pharmaceutical and medical knowledge process outsourcing
- Services that require general or specialized knowledge in the pharmaceutical, pharmacological, and medical science



- The growth of the global healthcare and pharma industry has been hindered by high development costs, lower number of unique molecules discovered, increased development timelines and dynamic market conditions
- Currently, the outsourcing of research and development work seems to be a viable option available to mitigate the risks involved
- India offers a strong advantage in clinical research and trials due to the following factors:
 - Availability of a large and diverse patient pool
 - Reduced time for data analysis
 - Availability of large skilled workforce



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- KPOs mainly offer research and backend work.
- KPOs use their employees expertise to carry out high-end processes like
 - Valuation
 - Research
 - Investment researches
 - Patent filing
 - Legal and insurance claims
 - Medical diagnoses and reports
 - Clinical trial and many other profiles depending on the industry the KPO caters to



References

Sameer Rastogi, Ajay Pal Singh & Tarun Virmani.
 Knowledge Processing Outsourcing (KPO):
 Opportunities in Pharmacy Research and
 Development. Indian Journal of Drugs, 2015, 3(3), 71-78

